

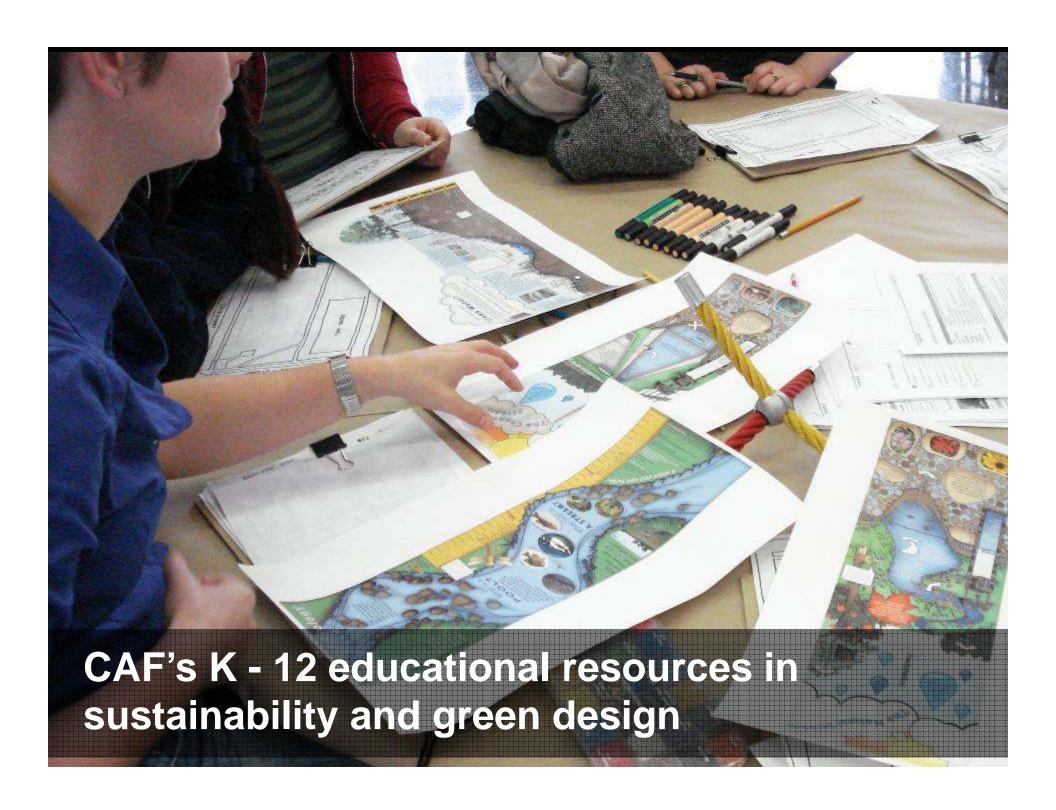
The School Building as a Teaching Tool

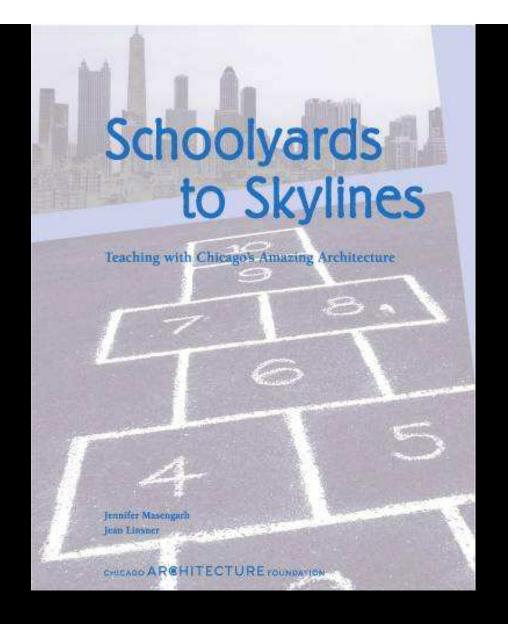
Illinois Green Governments Coordinating Council | Sustainable Schools Symposium April 2010 | Chicago

Jennifer Masengarb
Youth Education Department
Chicago Architecture Foundation







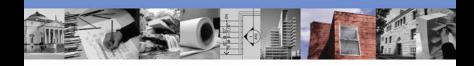


- > K- 8th grade teacher resource, 500 pages
- Math, Science, Social Sciences, Language Arts, Fine Arts lessons
- > 2005 National AIA Honor Award
- > hands-on activities teach sustainability

Schoolyards to Skylines: Teaching with Chicago's Amazing Architecture

THE ARCHITECTURE HANDBOOK:

A Student Guide to Understanding Buildings

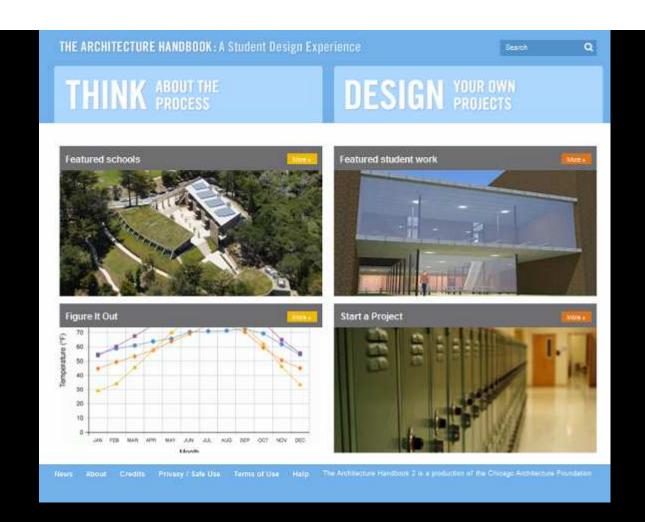


CHICAGO AR CHITECTURE FOUNDATION

Jennifer Masengarb with Krisann Rehbein

- > First high school architecture text in the nation
- > 300-page student edition and 600-page teacher edition
- > uses green home as case study building
- > 2009 national AIA Honor Award
- > hands-on activities teach sustainability

The Architecture Handbook: A Student Guide to Understanding Buildings



www.TAH2.org [beta] digital, interactive curriculum for HS students

Students investigate the design and construction of green schools



Space planning / Circulation

Clients / Functions of rooms

Air movement through rooms

Active vs. passive mechanical systems

Orientation and sun path

Permeable vs. impermeable ground cover

Space planning / Circulation Math

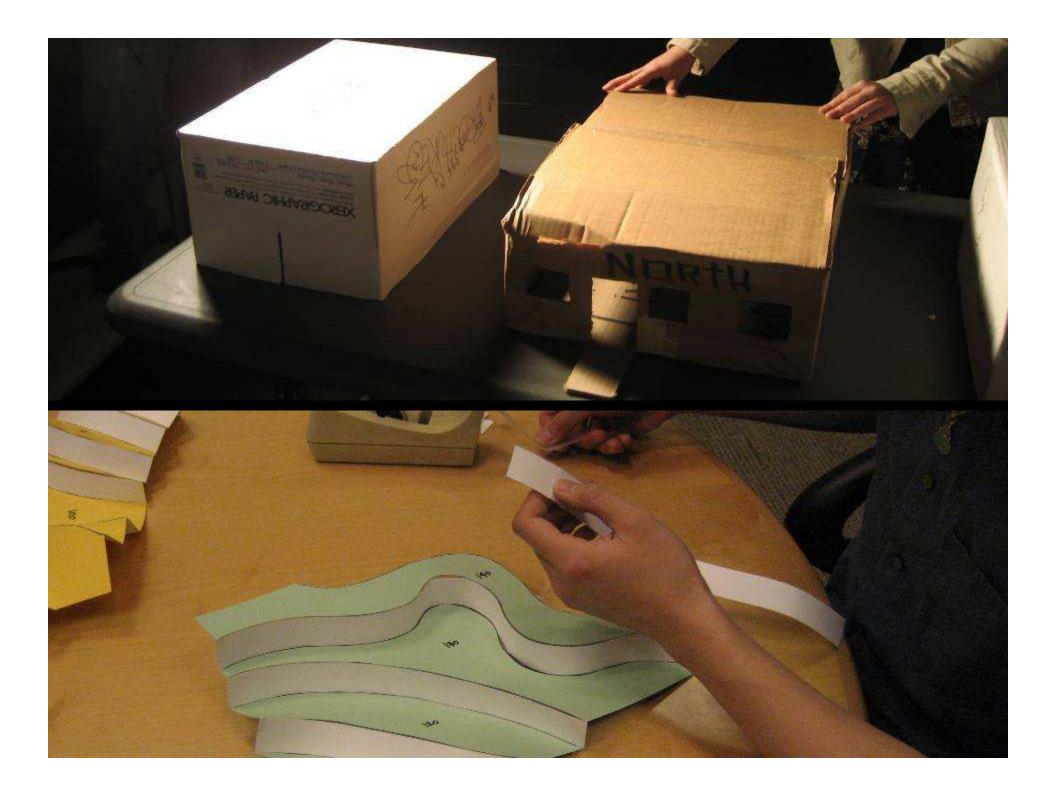
Clients / Functions of rooms Social Sciences, Language Arts

Air movement through rooms Science, Geography

Active vs. passive mechanical systems Science, Math

Orientation and sun path Science, Geography

Permeable vs. impermeable ground cover Science







Math

Six computer models fluorate the F10 House and the path of the sun in the sky on June 21 (the fine day of summer) and Execusive 21 (the fine day of vines). Use the diagrams to move a the following quantition.











W/UU are Liegemeer 24 FLEHous Suspath days me



12:30 pm Determor 21



3300 pm pagement 21

- t Inwhish direction does the sun rise!
- 2 Inwhich direction does the run ret?
- 2. In the six diagrams, when is the angle of the son the highest in the sky over the 710 Houself
- 4. When a through of the run the lowest is through over the PIU House'
- 5 At 12:00 pm, what time of year are the shadows the shortest

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The Architecture Handbook, A Suplent Guide to Understanding Suil diess 62007

